

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939437

Luminaire Tested: **GALN-SB2A-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9497 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

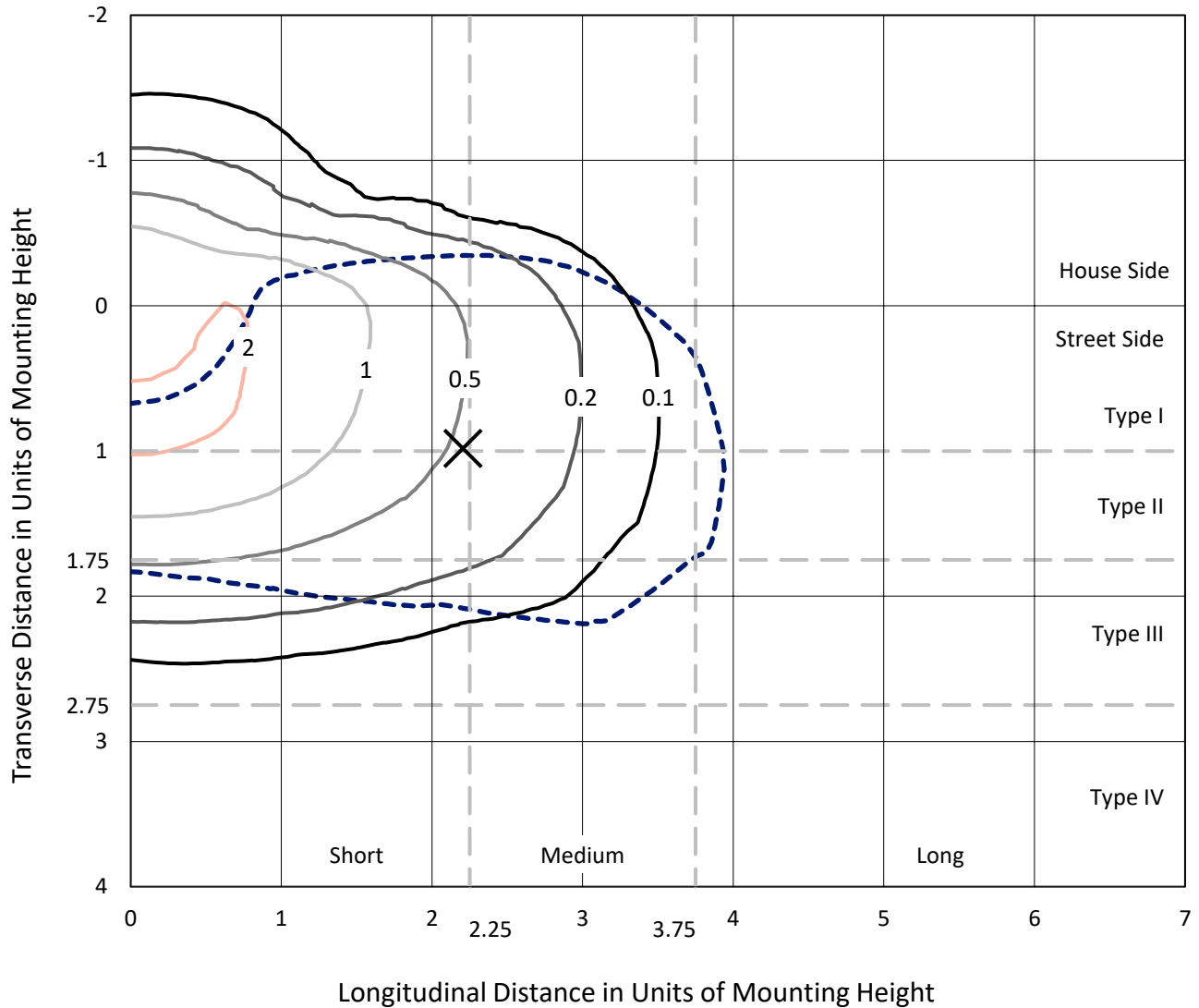
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

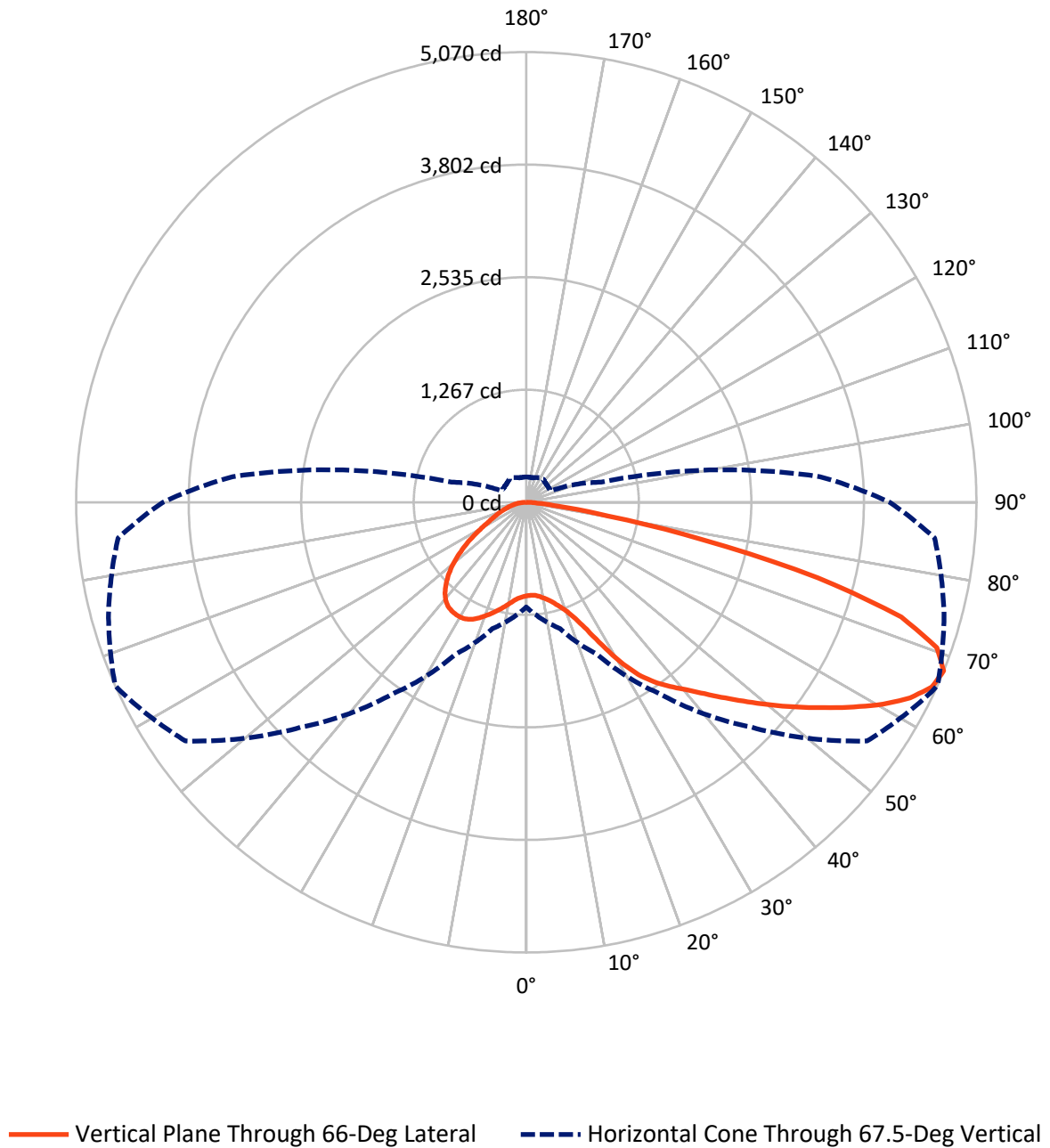
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2361.4	0.0	2361.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7135.6	0.0	7135.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	9497.0	0.0	9497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.1
10°-20°	345.0	3.6
20°-30°	665.0	7.0
30°-40°	1166.1	12.3
40°-50°	1733.6	18.3
50°-60°	2197.5	23.1
60°-70°	2150.2	22.6
70°-80°	1025.6	10.8
80°-90°	109.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9497.0	100.0
0°-180°	9497.0	100.0

Coefficient of Utilization



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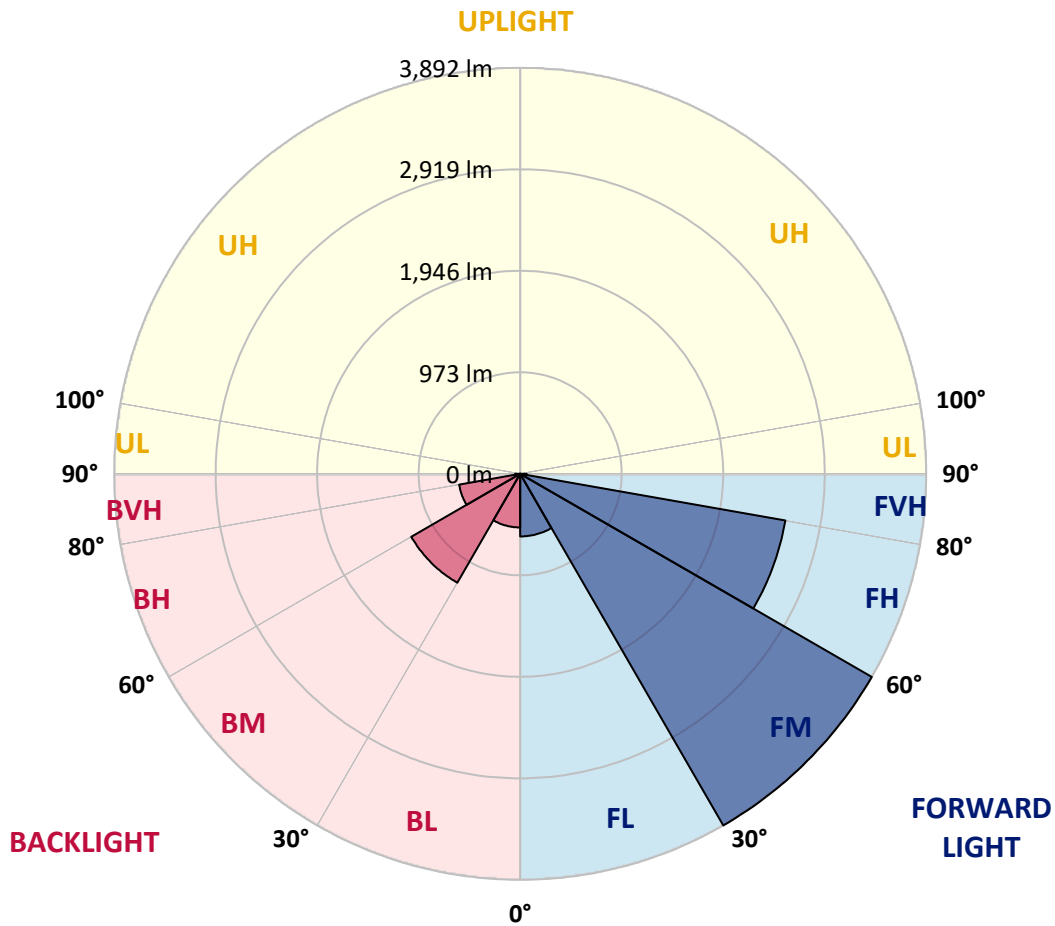
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.1	6.3			
FM (30°-60°)	3891.8	41.0			
FH (60°-80°)	2581.5	27.2			G2/5000
FVH (80°-90°)	62.1	0.7			G1/100
BL (0°-30°)	514.4	5.4	B2/1000		
BM (30°-60°)	1205.3	12.7	B2/2500		
BH (60°-80°)	594.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	47.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3
2.5°	1042.4	1048.4	1046.9	1044.4	1043.9	1044.9	1046.4	1047.9	1047.4	1049.8
5°	1039.4	1045.4	1044.9	1044.9	1046.9	1050.8	1053.3	1055.8	1053.3	1056.3
7.5°	1041.4	1045.9	1047.9	1049.8	1054.8	1062.3	1068.3	1073.8	1070.8	1074.3
10°	1066.8	1070.3	1072.3	1072.3	1075.8	1084.3	1090.3	1100.2	1097.8	1103.2
12.5°	1113.2	1116.7	1116.7	1114.7	1117.2	1122.7	1124.7	1135.7	1131.2	1140.2
15°	1170.1	1177.1	1171.6	1168.1	1169.1	1174.6	1174.1	1182.6	1178.1	1185.6
17.5°	1233.0	1242.0	1233.0	1232.5	1230.5	1236.5	1237.0	1244.5	1236.5	1242.0
20°	1307.3	1319.8	1312.3	1314.8	1310.3	1312.8	1315.3	1326.3	1313.8	1317.8
22.5°	1412.1	1427.1	1419.1	1428.6	1425.6	1423.6	1423.1	1442.5	1423.1	1424.6
25°	1564.8	1582.8	1568.8	1581.8	1581.8	1588.2	1595.7	1620.7	1588.2	1578.8
27.5°	1790.3	1808.3	1780.9	1788.8	1786.3	1802.3	1794.3	1856.2	1821.3	1805.8
30°	2061.8	2093.7	2041.8	2039.8	2037.3	2062.8	2074.3	2115.2	2079.7	2064.3
32.5°	2355.2	2388.6	2326.7	2308.8	2299.3	2314.8	2305.3	2338.2	2313.8	2289.8
35°	2665.5	2698.5	2639.6	2604.7	2566.7	2534.3	2500.4	2508.9	2485.9	2449.5
37.5°	2958.9	3019.3	2956.9	2919.5	2849.7	2786.3	2691.5	2652.1	2630.6	2597.2
40°	3257.8	3292.3	3244.9	3212.9	3137.1	3037.8	2886.1	2802.8	2773.8	2741.4
42.5°	3477.9	3510.8	3485.4	3463.4	3404.0	3288.8	3092.7	2988.4	2946.5	2910.0
45°	3652.5	3677.0	3661.0	3669.0	3643.5	3531.8	3306.7	3187.5	3144.1	3099.7
47.5°	3722.9	3748.8	3774.3	3821.7	3865.1	3782.8	3536.8	3403.0	3357.1	3311.7
50°	3714.9	3741.3	3815.2	3916.0	4050.7	4023.3	3779.3	3632.6	3590.1	3538.3
52.5°	3651.0	3681.0	3775.8	3943.4	4158.0	4203.4	4026.3	3869.6	3829.7	3767.8
55°	3483.4	3501.3	3643.5	3881.1	4183.4	4329.1	4268.3	4122.1	4082.1	3995.8
57.5°	3172.5	3198.4	3405.5	3712.9	4119.6	4414.5	4480.8	4387.5	4349.1	4224.8
60°	2766.8	2808.2	3045.3	3430.5	3956.9	4414.0	4673.9	4648.5	4616.5	4450.4
62.5°	2307.8	2355.7	2583.7	3031.3	3672.5	4288.7	4794.7	4867.0	4850.6	4658.5
65°	1772.4	1805.3	2032.3	2514.8	3229.9	4019.8	4808.7	5016.2	5019.2	4816.6
67.5°	1180.1	1274.9	1472.0	1887.1	2637.1	3580.2	4685.9	5040.7	5069.6	4871.0
70°	575.8	700.6	893.7	1226.5	1887.1	2906.0	4365.1	4840.1	4904.5	4712.3
72.5°	239.0	279.4	384.7	605.3	1083.3	1961.0	3720.4	4296.2	4415.5	4175.4
75°	161.2	174.6	220.0	310.4	493.5	967.0	2683.0	3203.4	3395.5	3153.5
77.5°	124.2	132.7	160.2	217.1	293.4	365.8	1436.1	1930.5	2029.8	1879.2
80°	97.8	104.3	119.8	158.2	208.1	195.6	489.5	874.7	932.1	781.9
82.5°	84.8	87.3	85.8	107.3	138.2	114.3	160.7	322.8	356.3	258.5
85°	61.4	68.4	71.4	66.4	73.3	57.9	65.9	114.3	125.7	112.3
87.5°	24.9	36.9	45.4	42.9	26.9	16.5	20.5	33.4	38.4	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1053.3	0°	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3
1053.8	2.5°	1054.3	1057.8	1060.3	1063.3	1065.3	1068.3	1074.3	1077.8	1078.3	1080.8
1061.8	5°	1063.8	1068.8	1074.3	1082.3	1091.3	1098.7	1110.2	1118.2	1121.2	1123.7
1081.3	7.5°	1084.3	1091.3	1101.2	1115.2	1128.2	1138.2	1152.1	1161.6	1171.1	1174.6
1112.2	10°	1114.7	1124.7	1139.2	1158.1	1172.1	1185.1	1199.5	1207.5	1217.0	1221.0
1149.1	12.5°	1152.6	1163.1	1182.1	1208.5	1221.5	1230.5	1235.5	1233.5	1235.5	1239.0
1193.6	15°	1196.1	1207.5	1229.0	1257.4	1266.4	1258.4	1247.4	1237.5	1236.0	1237.0
1247.4	17.5°	1247.4	1255.9	1280.9	1304.8	1298.3	1265.4	1241.5	1225.5	1217.5	1215.0
1316.3	20°	1319.3	1319.3	1339.8	1354.7	1311.3	1255.4	1218.0	1192.1	1175.6	1168.6
1410.1	22.5°	1406.6	1398.6	1411.6	1401.1	1308.8	1227.5	1175.6	1130.7	1105.7	1095.8
1541.3	25°	1517.4	1507.9	1504.4	1439.6	1290.9	1183.1	1098.7	1044.4	1022.4	1016.9
1730.5	27.5°	1684.6	1660.6	1615.2	1460.5	1257.9	1113.2	1008.9	958.5	946.1	946.6
1973.5	30°	1907.1	1859.2	1747.9	1464.0	1204.0	1014.4	917.1	881.2	875.2	877.7
2177.5	32.5°	2113.2	2067.8	1883.6	1448.0	1121.2	917.6	834.8	810.8	801.9	804.9
2333.2	35°	2274.8	2262.4	2009.4	1425.6	1019.4	826.8	760.9	740.5	723.0	719.0
2479.9	37.5°	2427.5	2422.5	2103.7	1394.1	918.6	762.4	701.6	674.6	649.2	635.2
2642.1	40°	2595.2	2590.2	2165.6	1345.7	829.3	706.6	648.2	612.7	581.3	555.9
2825.7	42.5°	2783.8	2754.4	2195.0	1276.4	753.5	659.2	604.8	556.9	515.4	492.0
3033.3	45°	2989.9	2923.5	2194.5	1188.1	689.6	615.7	558.4	490.5	452.1	430.1
3246.4	47.5°	3208.4	3085.2	2167.6	1090.3	627.7	567.8	486.5	434.6	409.2	395.7
3477.9	50°	3434.0	3236.4	2121.7	978.0	564.3	513.4	441.6	406.2	386.7	374.2
3707.4	52.5°	3646.0	3373.6	2066.3	850.8	500.0	460.6	421.6	394.2	373.7	359.8
3930.0	55°	3843.1	3491.8	1987.9	720.5	447.6	425.1	412.2	389.2	365.8	349.3
4156.0	57.5°	4018.3	3568.7	1852.7	598.3	410.2	400.7	402.2	380.7	353.8	339.8
4378.5	60°	4164.0	3625.1	1652.6	485.0	379.7	376.7	386.7	364.8	333.3	317.4
4566.6	62.5°	4251.3	3624.1	1407.1	397.2	353.8	354.8	366.2	344.8	312.9	297.9
4664.9	65°	4243.8	3535.3	1137.7	339.8	328.8	329.8	344.8	322.8	295.9	286.9
4615.5	67.5°	4093.6	3318.7	872.7	302.4	301.4	305.9	323.3	307.9	285.4	284.4
4321.2	70°	3686.9	2869.1	628.7	272.4	272.9	279.4	302.4	298.4	279.9	281.9
3633.1	72.5°	2956.4	2187.5	422.1	241.0	241.5	252.0	282.4	290.9	274.4	300.9
2577.7	75°	1969.0	1364.2	271.4	207.6	208.1	221.5	265.0	276.4	259.5	299.9
1341.3	77.5°	946.1	613.2	196.6	174.6	174.6	187.1	229.0	247.5	221.0	233.0
431.1	80°	326.8	230.5	154.7	140.7	137.7	146.2	193.1	214.6	190.6	175.6
140.7	82.5°	128.7	119.8	124.2	109.3	99.3	104.8	150.2	177.1	140.2	126.7
79.3	85°	73.8	77.8	87.8	72.4	57.4	64.4	110.3	127.2	105.8	93.3
25.9	87.5°	20.0	27.4	40.4	37.4	25.9	27.4	52.4	70.4	60.9	46.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1053.3
1080.3
1123.2
1175.1
1223.0
1240.0
1240.5
1218.5
1167.1
1094.3
1017.9
948.1
886.2
808.8
722.0
635.7
558.4
493.5
429.1
392.7
369.7
353.8
342.8
330.8
310.4
293.4
286.4
285.9
281.4
304.9
302.4
213.6
164.7
126.2
95.3
48.4
0.0

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